MAYBOROD, T.A.

Programing and automation control of raw materials, semi-finished products and finished product handling.

Report to be presented at the Third All-Union Conference en automation and machanisation of major rubber production processes, Dnepsepetrovsk, 2-6 Oct 62

l.	Mayboroda,	Å.	Α.
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- 2. USSR (600)
- 4. Brucellosis
- 7. Experiments in treating brucellosis with inactivated and living vaccine. Nauch. trudy UTEV 18. 1951.

9. Monthly List of Russian Accessions, Library of Congress, March 1953. Unclassified.

MAYBORODA, A.D.; LIKHACHEVA, N.V., prof., nauchnyy rukovoditel' raboty

Effect of the duck hepatitis virus on the kidney tissue culture cells of chicks and duck embryos. Veterinariis 42 no.8:28-30 Ag *65. (MIRA 18:11)

1. Starshiy veterinarnyy vrach Gosudarstvennogo nauchnc-kontrollnogo instituta veterinarnykh preparatov (for Mayboroda).

MAKAROVA, G.A., kand. veter. nauk; MAYBORODA, A.D., mladshiy nauchnyy sotrudnik

BIO BIONE BUILDING BUILDING BENEVERSE STORT STOR

Streptococcosis in chicks. Veterinariia 42 no.8:47-48
Ag *65. (MIRA 18:11)

1. Gosudarstvennyy nauchno-kontrol nyy institut veterinarnykh preparatov.

MAYEORODA, A.N., inzh.; ROLINSKIY, V.Yu., kand.tekhn.nauk

Diametrical fans. Sudostroenie 30 no.1:26-27 Ja '64.

(MIRA 17:3)

L 29348-66 EVP(m)/EVT(d)/EVT(1)/I/EVP(1) IJP(c).

ACC NA. AR600;2854 (N) SOURCE CODE: UR/0021/65/000/012/1583/1585

AUTHOR: Mayboroda, O. M.—Mayboroda: A. N.

ORG: Institute of Applied Thermophysics, AN UkrSSR (Instytut tekhnichnoyi teplofizyky AN UkrSSR)

TITLE: Mathematic model of flow in a blower with transverse flow

SOURCE: AN UKIRSR. Dopovidi, no. 12, 1965, 1583-1585

TOPIC TAGS: fluid flow, fluid mechanics, mathematic model, industrial blower, function, transverse flow

ABSTRACT: The conditions of flow in various types of blowers with transverse flow are discussed. The problem of determining the form of the internal guiding device for a blower equipped with such a device is formulated. A pattern of boundary conditions is developed and a solution for the function of current flow in the guiding device is found. This paper was presented by Shvetz', I. T., Academician AN UKrSSR. Orig. art. has: 1 figure and 4 formulas.

SUB CODE: 20,12/ SUBM DATE: 05May64/ ORIG REF: 003/ OTH REF: 003

Card 1/1 (C)

RONAREV, N.S. (Kner'kov); MAYEORCDA, A.R., (Kher'kov)

Potentials for increasing the traffic and carrying capacity of a religious. Zhel, dor; transp. 45 no.11s8-12. N. ... (63.

(MIRA 16:12)

1. Zamestital' nachal'niks Yuzhney doregi (for Konarev).

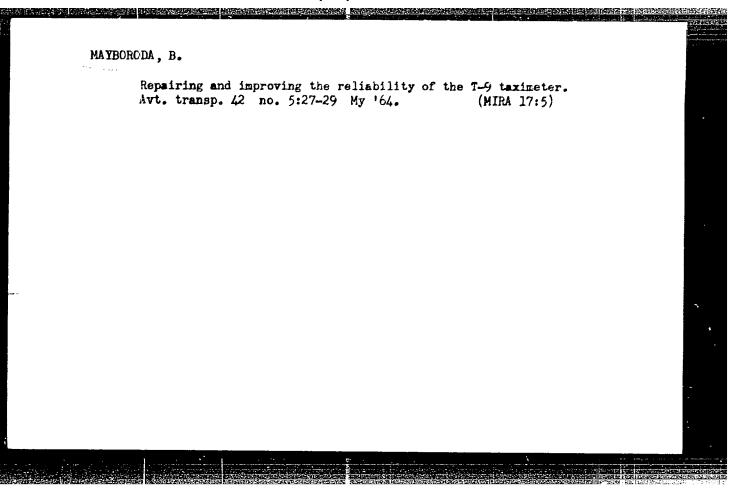
2. Nachal'nik tekhnichashogo otdela slubbly dvinheniya Yuzhney doregi (for Mayboroda).

VOZHZHOVA, A.I., kund.med.nauk; MAYBOROMA, A.Ya., insh.-kapitan 2 ranga

New experimental data on protecting the ear from noise by
diesel engines, Voens-med.shur. no.6:24-27 Je '59.

(NOISE, prev. & control

in operation of cutters with diesel engines (Rus))



MAYBORODA B.F.

Resolutions of the June Plemm of the Central Committee of the CPSU are being put into practice. Ugol' Ukr. 3 no.10: 1-4 0 '59. (MIRA 13:2)

AND THE PERSON OF THE PERSON O

1. Zamestitel' zaveduyushchego otdelom tyazheloy promyshlennosti TSentral'nogo komiteta kommunisticheskoy partii Ukrainy. (Coal mines and mining) (Russia--Economic policy)

MAYBORODA, F. A.

On 20 December 1946, at the Power Engineering Institute imeni Molotov, defended his dissertation on "A Theoretical and Experimental Investigation of the Electric Drive of Auxiliary Machinery for Reversing Rolling Kills". Official opponents - Doctor of Technical Sciences Professor Ye. V. Nitusov, and Candidate of Technical Sciences M. G. Chilikin.

STATE OF THE PROPERTY OF THE P

So: Elektrichestvo, No 4, April 1947, pp 90-94 (U-5577, 18 February 1954)

A theoretical and experimental analysis was presented of the electromechanical processes in the electric drive of auxiliary machinery for reversing rolling mills. A method was worked out for calculating the parameters of systems of low-power electric drive controlled by the Leonard system, and an example of calculation was given for the electric drive of a pressure instrument. A detailed experimental investigation was made of the electric drive of anumber of auxiliary machines in the Zaporozhstal' slabbing mill and operational indexes were derived for electric drive under active working conditions. It was shown that the basic loading of the electric drive of roll tables, pressure instruments, and shears is a dynamic load. The possibility was demonstrated of reswitching some electric-drive motors operating in parallel to work in series for the purpose of reducing power losses while maintaining productivity. It was recommended that the Leonard system is be used with amplidyne control as the most highly perfected, economical, and promising type of electric drive for metallurgical plants.

So: IBID

CIA-RDP86-00513R001033020014-7 "APPROVED FOR RELEASE: 06/14/2000

SOV/176-58-7-16/17

Mayboroda, G., Engineer-Colonel in the Reserve; AUTHORS:

Lyubinskiy M., Senior Scientific Worker at the Military Engineering Museum (Voyenno-Inzhenernyy

muzey)

The Fatherland Reveres Its Hero (Rodina chtit pamyat' TITLE:

geroya)

PERIODICAL: Voyenno-inzhenernyy zhurnal, 1958, Nr 7, pp 42-43 (USSR)

The authors give a short biography of Lieutenant General ABSTRACT:

of the Engineers D.M. Karbyshev, who became a prisoner of war in 1941 and was killed at Mauthausen in Austria in February 1945. In 1958 a memorial plate was fixed to the wall of the house in which he lived before the war. Speeches were made during the ceremony. Engineer-

Colonel-General A.I. Proshlyakov of the Defense Ministry of the USSR, spoke first, then Engineer Lieutenant General Ye.V. Leoshenya, who was Karbyshev's comrade at the Frunze Military Academy. Comrade

C₂rd 1/2

SOV/176-58-7-16/17

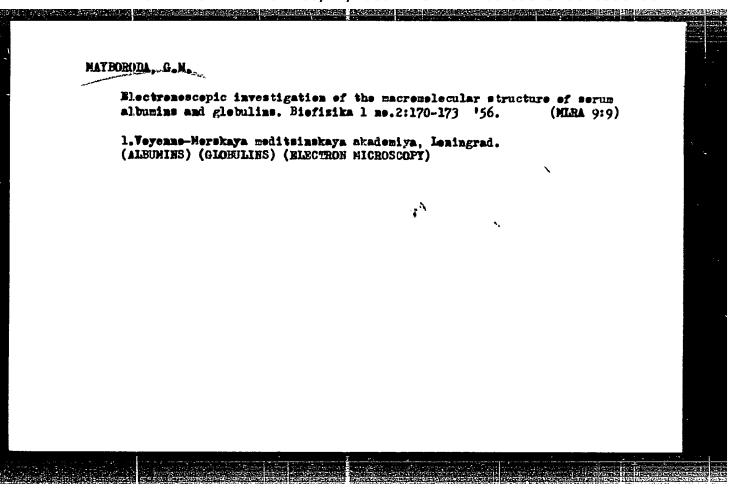
The Fatherland Reveres Its Hero

Yu. Svinukhov spoke on behalf of the workers and employees of the Combine "Red Rose" ("Krasnaya Roza"). There are 3 photographs.

Card 2/2

IVAMOV, Nikolay Nikolayevich, doktor tekhn. nauk, prof., MOGILEVICH, Valentin Mikhaylovich, prof.; MAYBORODA. Gerasim Il'ich, dots.; BARZDO, Vladimir Ivanovich, dots.; ANDRULIONIS, Yevgeniy Petrovich, assistent; MOTYLEV, Yn.L., red.; TOPOL'NITSKAYA, L.P., red.izd-va; GORYACHKINA, R.A., tekhn. red.

[Highway construction] Stroitel'stvo avtomobil'nykh dorog. [By] N.N.Ivanov i dr. Moskva, Avtotransizdat. Pt.l. [Raising of the earth bed, construction of simple pavements and foundations] Vozvedenie zemlianogo polotna, ustroistvo pokrytii prosteishikh tipov i osnovanii. 1963. 463 p. (MIRA 17:2)



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: Ref I har - Piot., No 5, 1998, 20036 Ahn Jour

医医院性神经 医牙唇性神经炎 医神经神经 医神经神经 医

Author: Inst

May was , do

Title

: Threat -line formations in Preservations of Dysentery Phage.

Orlandation

: Dote . All Book, 1990, alle, No 3, 700-768

Abstract

: In processmaller of dysentery eneges, stored for song perione, thread-All a surmosures are found, similar so chain-Leus of scherical elements described in the literature. The soliving of one preparations was inversely proportional to the number of threads. The author believes that the threads are arcalete of decommosition of the normal structure or shape particles. There are 4 electron pho-

venierograph..

Card 1 1

DASHEFFICH, I.O.; D'YAKOV, S.I.; YERMAKOV, H.V.; IVAHOVA, M.T.;
MATECREDIA, G.M.

Staining Salmonella typhosa eith fluorescent antibodies. Zhur.
mikrobiol.epid. i imun. 30 no.1:97-102 Ja '58. (MIRA 12:3)

1. Iz Voyenno-meditsinskoy ordena Lenina akademii imeni Kirova.
(SALMONKLIA TYPHOSA,
stain. by fluorescent antibodies (Rus))
(ANTEDDIES,
fluorescent antibodies, stain. of Salmonella
typhosa (Rus))

MIKHAYLOV, Ivan Fedorovich; D'YAKOV, Sergey Ivanovich. Prinimali uchastiye: DASHKEVICH, I.O.; YERMAKOV, N.V.; IVANOVA, M.T.; LI LI; OSIPOVA, I.V.; MAYBORODA, G.M.; USPENSKIY, V.I., red.; ZUYEVA, N.K., tekhn. red.

是一个人的人,我们是一个人的人,我们是一个人的人的人,我们是一个人的人的人,我们也没有一个人的人,我们也没有一个人的人,我们就会这些人的人的人,我们就是一个人的

[Fluorescence microscopy; application in medical microbiology]
Liuminestsentnaia mikroskopiia; primenenie v meditsinskoi mikrobiologii. Moskva, Medgiz, 1961. 222 p. (MIRA 15:1)
(FLUORESCENCE MICROSCOPY) (MICROBIOLOGY)

MAYBORODA, G.M.; DASHKEVICH, I.O.

Purification of finorescent conjugates from free fluorochrome using ion-exchange resins. Report No.1: Purification of antimicrobial fluorescent antibodies using ion exchange resin AB-17. Zhur. mikrobiol., epid. i immun. 40 no.3:55-59 Mr '63. (MIRA 17:2)

l. Iz Voyenno-meditsinskoy ordena Lenina akademii imeni Kirova.

Purification of fluorescing conjugates from free fluorochrome with ion exchangers. Report No.2: Comparative results of purification of fluorescent antibodies by ion-exchange methods and filtration through gel. Zhur.mikrobiol., epid. i immun. 42 no.2:116-120 F 165. (MIRA 18:6)	
1. Voyenno-meditsinskaya ordena Lenina akademiya imeni Kirova.	
생활물로 발발로 발견되었다. 그 이 사람이 되지만 하는데 보면 생각이 되었다면 보면 하는데 하는데 하는데 보다. 당시 사용하는 물론 하는데	
선생님 경험 경험 등 생각이 되었다. 그는 그는 그 전에 살아왔다. 그는	
경기에 발표하는 경기 기업을 보고 있는데 그 이 그리고 있다. 그 그 그리고 있는데 그 그는데 그는데 그는데 그는데 그는데 그를 보고 있다. 대한민국 전체를 통해 기업을 보고 있다면 하는데 그를 보고 있다. 그는데 그는데 그는데 그를 보고 있는데 그를 보고 있다.	
경영화 발생 사용 기계 보는 사람이 되는 것이 되는 것이 되는 것이 되었다. 그런	
활용하게 하고 취하고 있는 그는 그리는 이 경기에 가는 사람들이 하고 있습니다. 활동사용을 하는 것 같은 것이 되지 않아 하는 것이 되었다.	
보았다. 사용하다 :	

AUTHOR:

Mayboroda, I.K.

32-24-6-24/44

TITLE:

On the Problem of Increasing the Reproducibility of Spectral Analysis (K voprosu uvelicheniya vosproizvodimosti spektral'nogo

PERIODICAL:

Zavodskaya Laboratoriya, 1958, Vol 24, Nr 6, pp 748-750 (USSR)

ABSTRACT:

The application of double pairs for calculating photography results is suggested. A consultation took place with the participation of N.V.Buyanov (TsNIIGH) and I.N.Treyger ("Zaporoshstal"—Works). The method suggested differs from the one usually employed by the fact that instead of $\triangle S$ the value $\triangle S + \triangle S_1$ is entered on the ordinate. Data of the analysis of agglomerates and bronzes as well as calibration diagrams with respect to CaO and $3iO_2$ are given in a table. By the aforementioned changed method of dealing with measuring results, errors in reproduction are reduced by 1.45 their amount, an exception being formed by zinc. Analysis is described as taking 2O - 25 minutes, and the fact is atressed that by means of this method errors can of course be reduced only if among the total number of errors the reproducibility error is the most important. The method is recommended as

Card 1/2

On the Problem of Increasing the Reproducibility of Spectral Analysis

32-24-6-24/44

being especially efficacious in work with solutions in which the error of reproducibility is not influenced by the heterogeneous character of the sample. The method is widely being employed for work carried out in the test laboratories of the "Zaporozhstal" --First. There are 1 figure and 2 tables.

ASSOCIATION: Zavod "Zaporozhstal" ("Zaporozhstal"" Plant)

1. Spectrographic cameras--Performance 2. Photographic analysis --Errors

Card 2/2

24(7) AUTHOR:

Mayboroda, I. K.

SOV/48-23-9-52/57

TITLE:

On the Decrease of the Influence of Mineralogical Composition on the Results of the Spectral Analysis of a Fluxing Agglomerate

PERIODICAL:

Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1959, Vol 23, Nr 9, pp 1162 - 1163 (USSR)

ABSTRACT:

In the present paper the investigation of the fluxing iron-calcium agglomerate of various plants is described. The investigations show a distinctly marked dependence of mechanical stability on chemical and mineral composition. The production of the pulverulent samples is described and the data of the arc light source are given. The iron content of the agglomerates was roughly 50%, but no linear dependence of ΔS on the logarithm of the concentration (log C) was obtained. Δ S denotes the blackening difference of a line pair. This is brought into connection with the stability of the agglomerates, the sirtering conditions of the materials, and the cooling-conditions of the agglomerates. The petrographic analyses carried out by T. I. Litvinova show an influence exercised by granula-

Card 1/2

On the Decrease of the Influence of Mineralogical SOV/48-23-9-52/57 Composition on the Results of the Spectral Analysis of a Fluxing Agglomerate

tion upon Δ S. The hard part of the agglomerate, which contains magnetite, consists of large grains, the part containing olivine, glass, and calcium silicates is only weakly granulated. In the case of a sufficiently fine pulverization of the samples, satisfactory accuracy of the analysis is attained. There are 1 figure and 4 Soviet references.

ASSOCIATION: Zavod "Zaporozhstal" (Factory Zaporozhstal')

Card 2/2

MAYBORODA, I.K.; Prinimali uchastive: KOPIL, A.D. [Kopyl, A.D.], inzh.;
SIROSHTAN, A.P., diplomart

ESTERONOMICA DE LA COMPANION D

Dependence of the intensity of analytical lines of fluxed sinter on the state of the components of the solid specimen. Ukr.fiz.zhur. 6 no.6:853-859 N-D '61. (MIRA 16:5)

1. Ukrgiprokol ormet, m.Zaporizhzhya (for Mayboroda).

2. Zaporozhskiy staleplavil'nyy zavod (for Kopil).

3. Dnepropetrovskiy gosudarstvennyy universitet (for Siroshtan). (Spectrum analysis) (Iron-calcium alloys)

MAYBORODA, I.K.

. The residence of the second second

Role of the natural aging of samples of a fluxed iron-calcium agglomerate during spectral analysis. Zav.lab. 29 no.5:557-558 '63. (MIRA 16:5)

1. Ukrainskiy gosudarstvennyy proyektnyy institut tsvetnoy metallurgii.

(Calcium) (Iron ores-Spectra)

GRIKIT, I.A.; ARARENKO, V.S.; SAMOKHVALOVA, I.M.; MAYBORODA, I.K.; BUHYR', S.I.

Spectrographic determination of copper, aluminum, and iron in a catalyst of organic synthesis. Zav. lab. 30 no.9:1096 *64.

1. Ukrainskiy gosudarstvennyy proyektnyy institut tavetnoy metallurgii.

OGNEV, R.K.; TER-POGOSYAN, E.D.; MAYBORODA, I.K.

Blending the electrode mass before compression. TSvet. met. 36 no.6:55-58 Je 163. (MIRA 16:7)

(Electrodes, Carbon)

MAYBORODA, I.N.

AID P - 363

Subject

: USSR/Engineering

Card

: 1/1

Author

: Mayboroda, I. N., Engineer

建筑的大型,在一个工作的工程,在一个工作,不是一个工作,不是一个工作,不是一个工作,不是一个工作,不是一个工作,不是一个工作,不是一个工作,不是一个工作,但是一个工作,

Title

: Construction of garages for machine and tractor stations

(MTS) from sectional reinforced concrete elements

Periodical

Sbor. mat. o nov. tekh. v stroi., 5, 5-10, 1954

Abstract

Building Trust #26 of the Ministry of Building Constructions has built in the Brovar MTS near Kiev a new garage supported by a framework made of three-hinged reinforced concrete frames assembled from 4 identical prefabricated elements. 3 photos and 8 graphs show the details of

this construction.

Institution: None

Submitted : No date

MATERICA, Iven Rikolasyvich; IYSENKO, A., red.; DANILKINA, N., red.;

THE TREE CO. D. I., Lock M. A., red.; DANILKINA, N., red.;

[Metal fora of preparing reinforced concrete elements] Metallicheskie foray dlie usgotovlenita shelesobetonnykh itdeliti. Kiev. Gos. izd-vo lit-ry po stroit. i arkhit. USSR, 1956. 72 p. (MIRA 11:2)

(Precest concrete)

MAYBORODA, Ivan Mikolayevich; DANILKINA, N., red.; IOAKIMIS, ..,tekhn.red.

[Technology of manufacturing and erecting large-panel walls]
Tekhnologiia isgotovleniia i montazh krupnopanel nykh peregorodok.

Kiev, Gos.izd-vo lit-ry po etroit.i arkhit.USSB, 1957. 49 p.

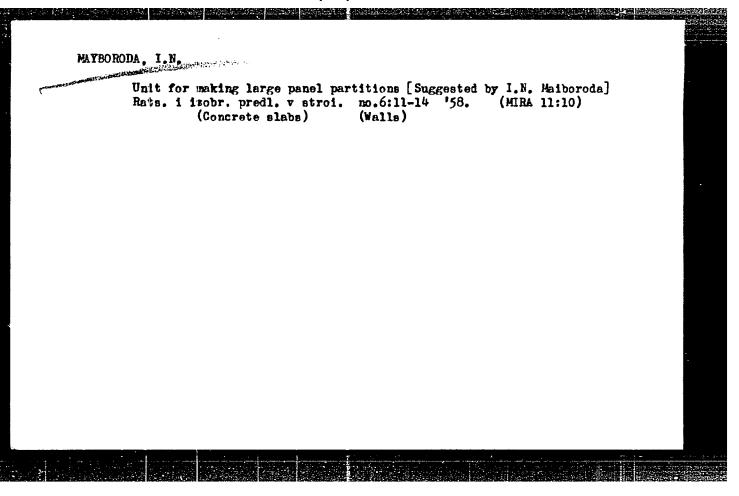
(MIRA 11:1)

(Walls) (Precast concrete)

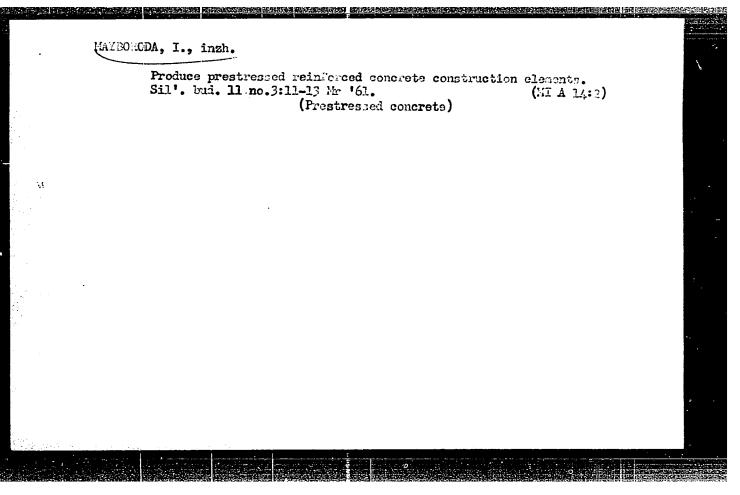
MEKHTYAR, Samuil Bentsionovich, insh.; MAYBORODA, Lvan Mikolayevich, insh.; MEDVEDEV, Mikhail Ivanovich, insh.; ROKHLIW, Il'ya Aleksandrovich, kand.tekhn.nauk; KHUTORYAWSKIY, Mikhail Semenovich, kand.tekhn.nauk; TUROVSKIY, B., red.; ZELENKOVA, Ye., tekhn.red.

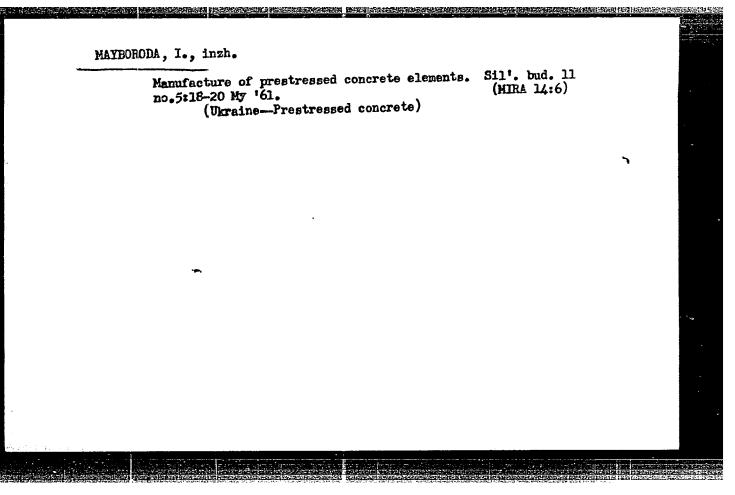
[Useful ceramic construction elements] Effektivnye konstruktsii is keramik.. Kiev, Gos. izd-vo lit-ry po streit. i arkhit. USSR, 1958. 355 p. (MIRA 12:2)

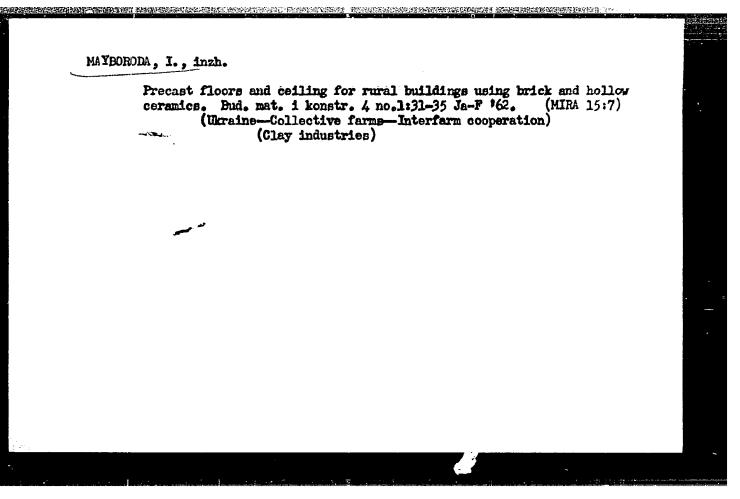
(Ceramics)



MAYBORDDA, I. New designs of farm buildings. Sil'. bud. 10 no.12:9-10 D '60. (MIRA 13:12) 1. Rukovoditel' sektora konstruktsiy sel'skikh sdaniy i soorouzheniy Rsuchno-issledovatel'skogo instituta stroitel'nykh konstruktsiy Akademii stroitel'stva i arkhitektury USSR. (Farm buildings)



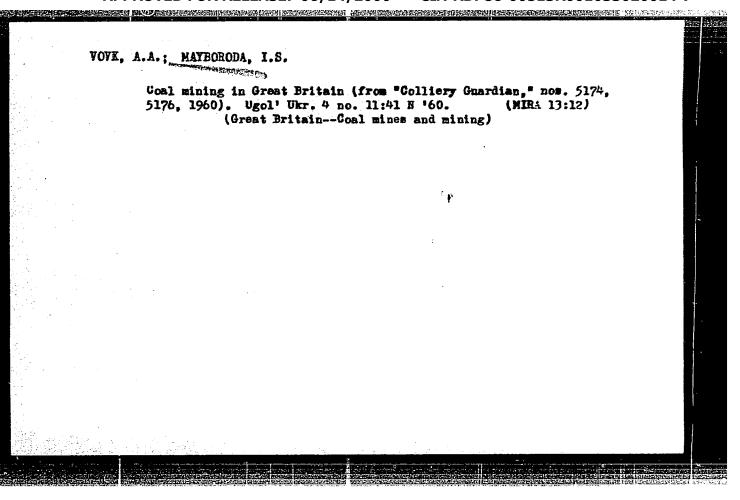


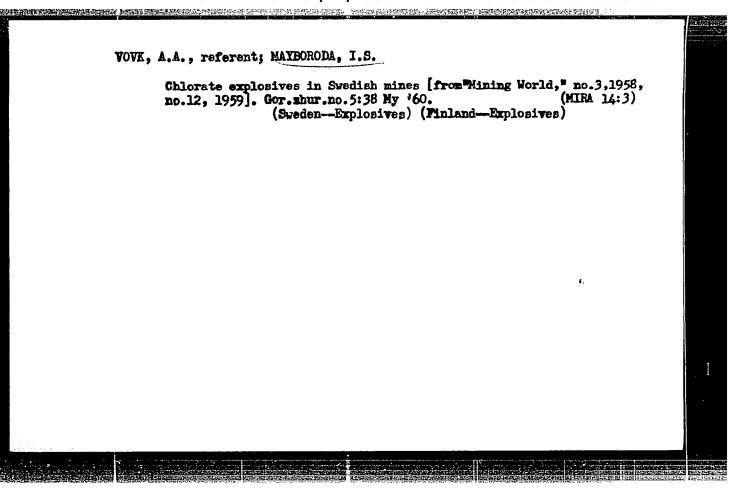


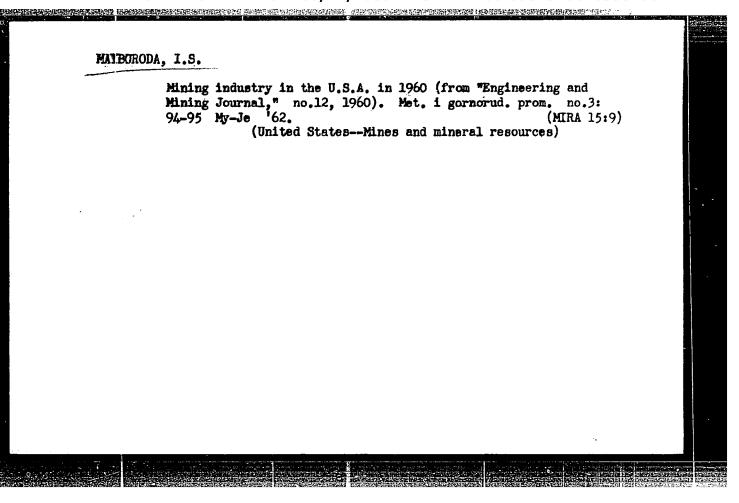
MAYBORODA, I.N.

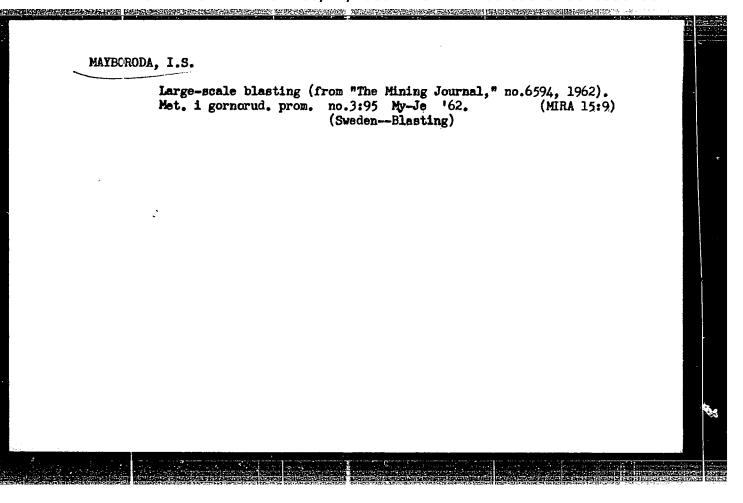
Mesh-reinforced ceramic panels for roofs with prestressed reinforcement are promising products for brickyards. Stroi. mat. det. i izd. no. 2:61-68 '65 (MIRA 19:1)

1. Nauchno-issledovatel skiy institut stroitel nykh konstruktsiy Gosstroya SSSR.







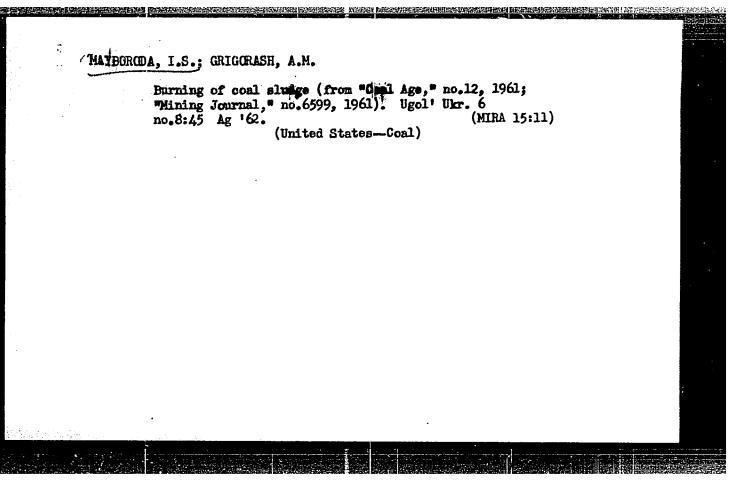


MAYBORODA, I.S. [translator]

Iron ore mining in the principal countries of the world in millions of tons (by years) (from foreign journals).

Met. i gornorud. prom. no.4:94 Jl-Ag '62. (MIRA 15:9)

(Iron mines and mining-Statistics)



MARKIN, G.A.; MAYBORODA, I.S.

Iron ore and manganese industry in the United States during 1961.

Met. i gornorud. prom. no.3:95 My-Je 63. (MIRA 17:1)

MAYBORODA, I.S. [translator]

Diesel-powered truck [translated by I.S. Maiboroda]. Met. 1 gornorud. prom. no.4194 31-Ag 163.

Boring and ore loading at the "Sendvis" mine. 94-95 (MIRA 16:11)

DEMIDOT, P. A.; MAYBORODA, I. S.

Coml industry of England (from "Colliery Guardian," nos. 5225, 5226 and 5227, 1961, nos. 5279 and 5278, 1962; "Gluskauf," no. 9, 1962). Ugol' Ukr. 7 no.4:43-44 Ap '63.

(Great Britain—Coal mines and mining)

(Great Britain—Coal mines and mining)

SHKVORETS, Yu.F.; MAYHORODA, I.S.

Hydraulically powered moveable supports. Ugol' Ukr. 7 no.7:
52-53 Jl '63. (MIRA 16:8)

(Mine timbering--Hydraulic drive)

MAY BORODA, K.S.

STREINHEWA, M.M.: MAYBEREMA, E.S.

Rubber-bearing ability of kok-saghys in relation to growing conditions. Bot. shur. [Ukr.] 12 no.1:32-43 '55.

(MEA 8:9)

1. Institut genetiki i selektsii AN URSR, laboratoriya biokhimii.

(Kok-Saghys)

MAYETER - H

PHASE I BOOK EXPLOITATION

SOV/5421

Rabinovich, Zinoviy L'vovich, Yuriy Vladimirovich Blagoveshchenskiy, Rostislav Yakovlevich Chernyak, Anna Leonidovna Gladysh, Ivan Timofeyevich Parkhomenko, Ivetta Petrovna Okulova, Lidiya Aleksandrovna Mayboroda, and Stanislav Sergeyevich Zabara.

Spetsializirovannaya elektronnaya schetnaya mashina SESM (SESM Specialized Electronic Computing Machine) Kiyev, Izd-vo AN UKrSSR, 1961. 144 p. 5,500 copies printed.

Sponsoring Agency: Akademiya nauk Ukrainskoy SSR. Vychislitel'nyy tsentr.

Resp. Ed.: V.M. Glushkov, Corresponding Member of the Academy of Sciences of the Ukrainian SSR; Ed. of Publishing House: I.V. Kisina; Tech. Ed.: A.M. Lisovets.

PURPOSE: This book is intended for personnel engaged in the design and operation of computing machines and also for specialists in related branches of science who are acquainted with the fundamentals of computing technique and computing mathematics.

Card 1/4

SESM Specialized Electronic Computing Machine

SOV/5421

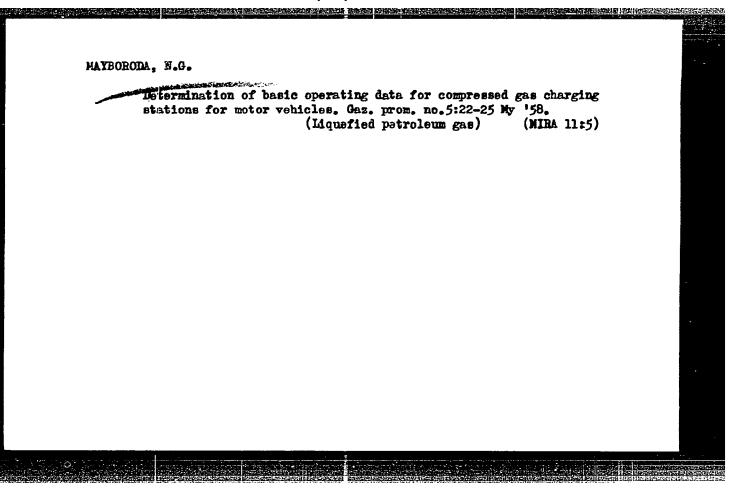
COVERAGE: The book describes the SESM (specialized electronic computing machine), which is intended for the solution of systems of linear algebraic equations and the computation of correlation functions. The authors discuss the methods of linear algebra used in the machine, its operating principles and those of its assemblies, circuits, and components. The authors credit Academician S.A. Lebedev with the fundamental idea and outline for the machine. The book was prepared by a group of staff members of the Computing Center AS UKrSSR under the direction of Z.L. Rabinovich, Candidate of Technical Sciences, who also wrote Sections II, IV, VIII, and IX. Section I was written by Yu.V. Blagoveshchenskiy, Candidate of Physics and Mathematics; Sections III, V, and XI were written by R.Ya. Chernyak, Candidate of Technical Sciences; Sections IV, VIII, and X by I.T. Parkhomenko, Engineer; Sections IV and IX by A.L. Gladysh, Engineer; Section VII by I.P. Okulova, Engineer; and Section VI by L.A. Mayboroda and S.S. Zabara, Engineers. The authors thank L.N. Dashevskiy, Candidate of Technical Sciences, and V.V. Kraynitskiy, S.B. Pogrebinskiy, Ye.Ye. Dedeshko, A.Z. Libman, and K.V. Golovko, Engineers. No personalities are mentioned. There are no references.

Card 2/4

KOGAN, Ye.A.; YARYM-AGAYEV, N.L.; MAYBORODA, N.F.

Calculation of saturated vapor pressure in binary systems in the case of chemical interaction between components in the vapor phase. Part 2. Zhur.fiz.khim. 37 no.7:1539-1544 Jl '63. (MIRA 17:2)

1. Donetskiy politekhnicheskiy institut.



MAYBOROUH, N. I.

- USSR/Chemical Technology. Chemical Products and Their Application -- Food industry, I-28

Abst Journal: Referat Zhur - Khimiya, No 2, 1957, 6621

Author: Mayhoroda, N. I., Kalinovskaya, V. K., Dmitriyeva, L. V., Vospen-

nikova, A. V., Isayeva, A. V., Durakova, G. N.

Institution: Moscow Technological Institute of Meat and Dairy Industry

Title: Preparation of Dietary Products from Milk with an Increased Content

of Dry Residue

Original

Publication: Sb. stud. rabot Mosk. tekhnol. in-t myas. i moloch. prom-sti, 1956,

No 4, 27-32

Abstract: Concentration of dry residue of milk can be increased, for the prepa-

ration of acidulous milk products, by a preliminary partial concentration or by addition to the natural milk of dried milk. Rapid increase of acidity and a more definite taste of the product were attained with a concentration of dry residue equal to 12-13% in the case of fat-free products, and of 14-15 and 18%, respectively, in the

Card 1/2

·USSR/Chemical Technology. Chemical Products and Their Application -- Food industry, I-28

Abst Journal: Referat Zhur - Khimiya, No 2, 1957, 6621

Abstract: case of reduced-fat and whole-fat products. Use of a Bulgarian

bacillus inoculum imparts a pleasant, sharp taste to the product, similar to that of yoghurt, and yields a product of delicately soft consistency when dry milk is used. Inoculum of mixed cultures (25% acidophilic bacillus and 75% Bulgarian bacillus) impart to the product a slight viscosity while preserving the sharp taste. Addition of 7% of beet sugar renders the sharp taste milder and reduces

the aftertaste of salts and dry milk.

Card 2/2

CONTRACTOR OF THE PROPERTY OF

- 1. MAYBORODA, N. M.
- 2. USSR (600)
- 4. Wheat
- 7. Combined effect of granular fertilizers and azotobacter preparation on the yield and sowing qualities of wheat seed, Sov. agron., 11, No. 2, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April, 1953, Uncl.

MAYBORODA, N. M.

"New Methods for the Preparation of Dung and Commost, Its Action on the Yield and Quality of Potatoes, Spring Wheat, and Perenial Grasses." Cand Apr Sci, Omsk Agricultural Inst imeni S. M. Kirov, Omsk, 1954. (KL, No 3, Jan 55)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (13)
S0: Sum. No. 598, 29 Jul 55

MAYBORDAA, N. M.

AYAHAS'YEVA, A.L., kand. biol. nauk; BAYERTUYEV, A.A., kand. sel'akokhozyayatvennykh nauk; BAL'CHUGOV, A.V., kand.sel'skokhozysystvennykh nauk; BELOZEROVA, N.A., agronom; BELOZOROV, A.T., kand.sel'skokhozyaystvennykh nauk; MAKSIMBNKO, V.P., agronom; BERNIKOV, V.V., doktor sel'skokhozysystvennykh nauk; BOGOMYAGKOV, S.T., kand.seliskokhozysystvennykh nauk; VOLYHPTS, O.S., agronom; BODROV, M.S., kand.sel'skokhozyaystvennykh nauk; BOGOSLAVSKIY, V.P., kand.tekhn.nauk; KHRUPPA, I.F., kard. tekhn. nauk: VERNER, A.R., doktor biol. nauk: VOZBUTSKAYA, A.Ye., kand.sel'skokhozyaystvennykh nauk; VOINOV, P.A., kand.sel'skokhozyaystvennykh nauk; VYSOKOS, G.P., kand.biol.nauk; GAIDIN, M.V., inzhenermekhanik; GERASIHOV, S.A., kand.tekhn.nauk; GORSHENIN, K.P., doktor sel'skokhozysystvennykh nauk; YELENEV, A.V., inzhener-mekhanik; (HERASKEVICH, S.V., mekhanik [deceased]; ZHARIKOVA, L.D., kand.sel'skokhozysystvennykh nauk; ZHEGALOV, I.S., kand.tekhn.nauk; ZIMINA, Ye.A., agronom; BARANOV, V.V., kand, tekhm. nauk; PAVIOV, V.D.; IVANOV, V.K., kand.sel'skokhozysystvennykh nauk; KAPIAN. S.M., kand.sel'skokhozysystvennykh nauk; KATIN-YARTSEV, L.V., kand.sel'skokhozyaystvennykh nauk; KOPYRIN, V.I., doktor sel'skokhozyaystvennykh nauk; KOCHERGIN, A.Ye., kend.sel'skokhozyaystvennykh nauk; KOZHEVNIKOV, A.R., kend. sel'skokhozysystvennykh nauk; KUZNETSOV, I.N., kand.sel'skokhozysystvermykh nauk; LAMBIN, A.Z., doktor biol.nauk; LEONT'YEV, S.I., kand.sel'skokhozysystvennykh nauk; MAYDODODA, W.M., kend.sel'skokhozyeystvennykh nauk; MAKAROVA, G.I., kand.sel'skokhozyaystvennykh nauk; MEL'HIKOV, G.A., inzhener; ZHDANOV, B.A., kand.sel'skokhozyay-stvennykh nauk; MIKHAYLENKO, M.A., kand.sel'skokhozyaystvennykh nauk; MAGILEVTSEVA, N.A., kand.sel'skokhozyaystvennykh nauk;

(Continued on next card)

APANAS'YEVA, A.L... (continued) Card 2.

HIKIFOROV, P.Ye., kand.sel'skokhozyaystvennykh nauk; NENASHEV, N.I., lesovod; PERVUSHIHA, A.N., agronom; PLOTHIKOV, N.A., kand.biol.nauk; I.G.; kand.sel'skokhozyaystvennykh nauk; PAVLOV, V.D., kand.tekhn. nauk; PRUTSKOVA, M.G., kand.sel'skokhozyaystvennykh nauk; GURCHENKO, V.S., agronom; POPOVA, G.I., kand. sel'skokhozyaystvennykh nauk; PORTYANKO, A.F., sgronom; RUCHKIN, V.H., prof.; RUSHKOVSKIY, T.V., agronom; SAVITSKIY, M.S., kand.sel'skokhozyaystvennykh nauk; BOLDIN, D.T., agronom; NESTEROVA, A.V., agronom; SERAFIMOVICH, L.B., kand. tekhn.nauk; SMIRNOV, I.N., kand.sel'skokhozyaystvennykh nauk; SHENBRYAHSKAYA, P.I., kand.tekhn.nauk; TOKHTUYEV, A.V., kand. sel'skokhozyaystvennykh nauk; YUFEROV, V.A., kand.sel'skokhozyaystvennykh nauk; YUFEROV, V.A., kand.sel'skokhozyaystvennykh nauk; YAKHTENFEL'D, P.A., kand.sel'skokhozyaystvennykh nauk; YAKHTENFEL'D, P.A., kand.sel'skokhozyaystvennykh nauk; SRMENOVSKIY, A.A., red.; GOR'KOVA, Z.D., tekhn.red.

[Handbook for Siberian agriculturists] Spravochnaia kniga agronoma Sibiri. Moskva, Gos. izd-vo sel'khoz. lit-ry. Vol.1. 1957. 964 p. (Siberia-Agriculture) (MIRA 11:2)

MAY DOROLA, P.M

BARSUKOV, N.I., kand.sel'skokhozyaystvennykh nauk; KIZYURIH, A.D., doktor sel'skokhozyaystvennykh nauk; BORIHEVICH, V.A., kand.sel'skokhozyaystvennykh nauk; BORMUSOVA, S.H., agronom; VERMENICHEVA, H.D., kand. sel'skokhozyeystvennykh mauk; GESHELE, E.E., doktor biol. nauk; GOROKHOV, G.I., kand.sel'skokhozyaystvennykh nauk; GUBKIN, S.M., kend. veterinermykh nauk; YELYKOVA, L.I., kand.sel'skokhozyaystvennykh nauk; KOTT, S.V., doktor biol. nauk; KOCHKINA, V.A., agronom; lambin, A.Z., doktor biol.mauk; LKBEDEVA, Ye.M., agronom; MAYBORODA N.M., kand. sel'skokhozyeystvennykh nauk; MAYDANYUK, A.E., gootekhnik; CVSYANNIKOV, G.Ye., kand.sel'skokhozyeystvennykh nauk; PMTRO7, F.A., kand.biol.nauk; POGORELOV, P.F., agronom; POLKOSHNIKOV, M.G., dotsent; EENARD, G.K., kand. sel'skokhozyaystvennykh nauk; RUCHKIN, V.N. prof.; SADYRIN, M.M., kand.sel'skokhozyaystvennykh nauk; TOBOL'SKIY, V.YA., vetvrach; TYAZHEL'NIKOV, S.J., kand.sel'skokhozyaystvennykh nauk; UKHIH, I.I., kand.sel'skokhozyaystvennykh nauk; FEDOROV, G.V., kand.sel'skokhozyaystvennykh nauk; CHIRKOV, D.I., zootekhnik; TSINGOVATOV, V.A., prof.; SHVETSOVA, A.N., kand.sel'skokhozyaystvennykh nauk; SHEVLYAGIN, A.I., kand.sel'skokhozyaystvennykh nauk; SHMEHOVSKIY, A.A., red.; GOLUBINSKAYA, Ye.S., red.; MECHAYEVA, Ye.G., red .: PERESYPKINA, Z.D., tekhnicheskiy red.

[Siberian agronomist's reference manual] Spravochnaia kniga agronoma Sibiri, Moskva, Gos. izd-vo sel'khoz. lit-ry, Vol.2. 1957. 839 p. (Siberia--Agriculture) (HIRA 11:3)

MAYBORODA, N.M.

Using the hydric method for determining soil moisture. Pochvovedenie no.8:101-103 Ag '57. (MIRA 10:11)

1. Krasnoyarskiy sel'skokhozyaystvennyy institut. (Soil moisture)

USSR/Soil Science - Organic Fertilizers.

J

Abs Jour

: Ref Zhur Biol., No 19, 1958, 86814

Author

: Mayboroda, N.M.

Inst

: Omsk Agriculture Institute

Title

: Effect of Manure and Composts on the Yield and Quality of

Agricultural Crops.

Orig Pub

: Tr. Omskogo s.-kh. in-ta, 1957, 22, No 1, 45-52

Abstract

: Various methods of preparing manure and composts and their effect on the crop yield were studied in field and vegetation experiments in 1952-1954 in the Western Siberian conditions in average-humus chernozem. In I M prepared with addition of 12 kg/t P, the microorganisms were greater in quantity, the combustion temperature was raised by 2 to 40, the period for preparation of fertilizer was shortened by 17 to 19 days, the nitrates were increased 2 to 6 times

Card 1/2

USSR/Soil Science - Organic Fertilizers.

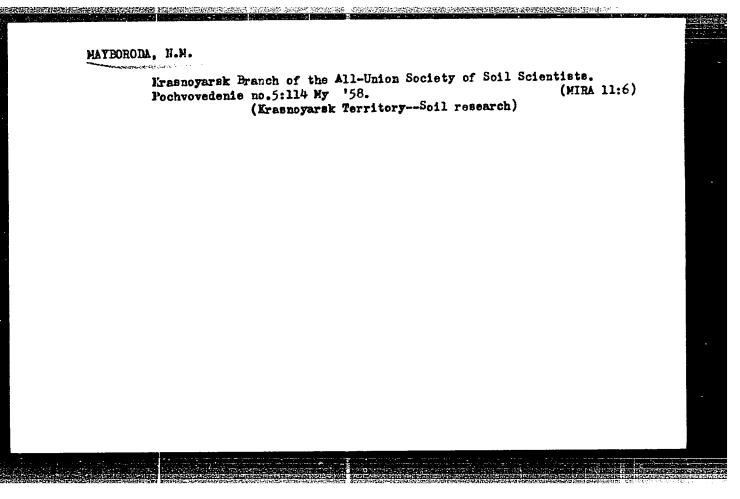
J

Abs Jour : Ref Zhur Biol., No 19, 1958, 86814

in quantity. M with the addition of P_c facilitates the accumulation in the soil of nitrates and assimilable P_2O_5 , and during spreading on the field loses 10 times less NH3 than without P_c . Most effective is M with P_c in straw cutting stored in a trench. M and compost with P_c and liquid fertilizers raised the crop yield (by 41.9 - 44.7 centners/hectare) and marketability (by 16.8 to 24.9%) of potato tubers, the yield of starch (by 544 to 749% kg/ha), the content of vitamin C and lowered the solanine quantity. M with P_c raised the crop yield (by 4.1 - 6.9 centners/hectare) and the quality of spring wheat grain. -- B.D. Aleglan

Card 2/2

- 50 -



Using the method of acid extracts for determining ammonium in soil. Pochvovedenie no. 2:100-103 F '61. (MIRA 14:2) 1. Krasnoyarskiy sel'skokhozyaystvennyy institut. (Soils-Analysis) (Ammonia)

经过程的过去式和过去分词 医克尔特氏 医克尔特氏 医克尔特氏 医克尔特氏 计

MAYBORODA, N. M.

Taking soil samples in studying the dynamics of mutrients. Pochwovedenie no.7:112-113 \$1 162. (MIRA 15:10)

1. Krasnovarskiy sel'skokhozyaystvennyy institut.

(Soils-Analysis)

MAYBORODA, N.M., kand.sel'skokhozyaystvennykh nauk; GLUSHKOV, K.I.;

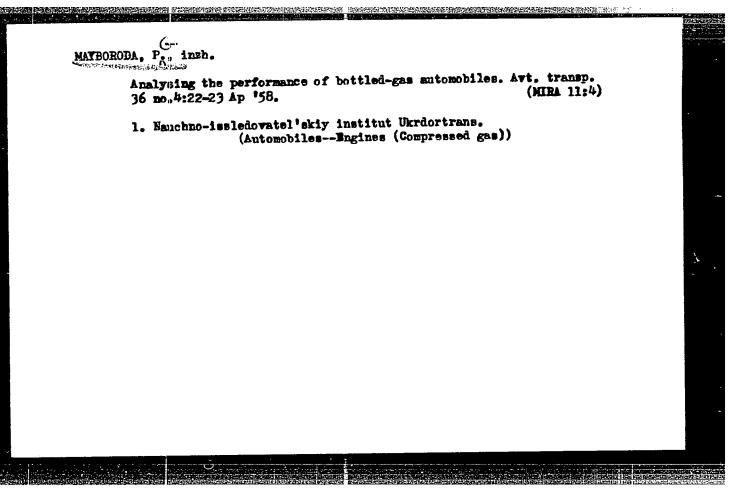
KALYUSHKIY, G.S.

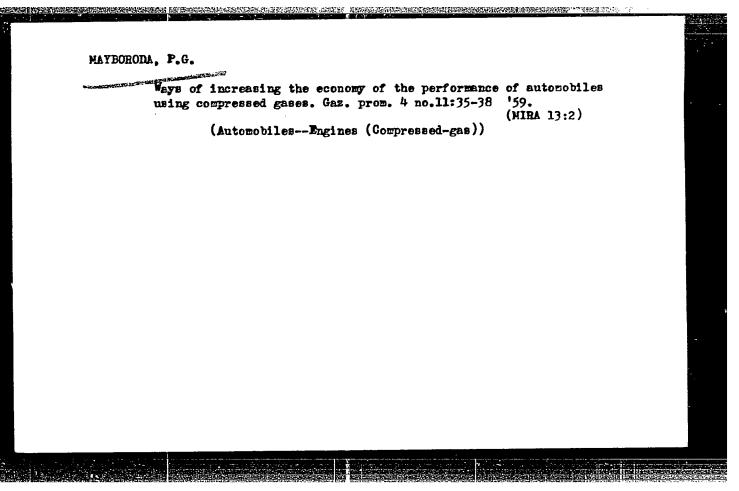
Krasnoyarsk phosphorites. Zemledelie 24 no.3:79-80 Mr '62.
(MIRA 15:3)

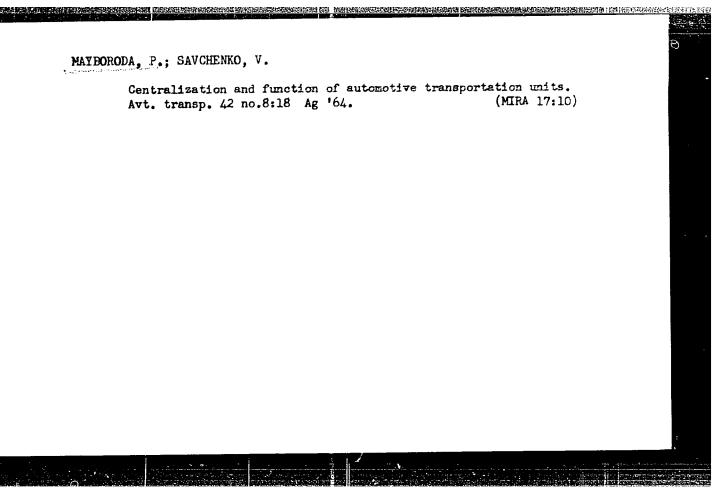
1. Glavnyy agronom-inspektor Krasnoyarskogo kraysel'khozupravleniya
(for Glushkov). 2. Nachal'nik laboratorii Sibirskogo proyektnogo
nauchno-issledovatel'skogo instituta tsvetnoy metallurgii (for
Kalyushkiy).
(Krasnoyarak Territory--Phosphates)

SAPOZHNIKOV, Yefim Nus'yevich, inzh.; RODIONOV, Vasiliy Nikolayevich, inzh.; GARASHCHENKO, Grigoriy Matveyevich, inzh.; MAYBORODA, N.V., inzh., retsenzent;

[Manual for an amateur navigator] Fosobie sudovoditeliuliubiteliu. Izd.2., perer. i dop. Kiev, Izd-ve "Tekhmika," 1964.. 277 p. (MIRA 17:5)







AGRANAT, P.; ALEKSANDROVA, S.; LUTSKER, G.; MAYBORODA, P.

Efficiency of the concentration of loading and unloading operations at key stations. Avt. transp. 42 no.8:32-34 Ag '64. (MIRA 17:10)

1. Gruzovaya sluzhba Yugo-Zapadnoy zheleznoy dorogi (for Agranat). 2. Ukrainskiy dorozhno-transportnyy nauchno-issledovatel'skiy institut (for Aleksandrova, Lutsker, Mayboroda).

ACCESSION NR: AT4007046

8/2598/63/000/010/0234/0244

AUTHOR: Kornilov, I.I.; Mikheyev, V.S.; Andreyev, O.N.; Mayboroda, P.S.

TITLE: Heat resistance of some titanium alloys at 450-700 C

SOURCE: AN SSSR. Institut metallurgii. Titan i yego splavy*, no. 10, 1963. Issledovaniya titanovy*kh splavov, 234-244

TOPIC TAGS: titanium alloy heat resistance, titanium alloy, OT-4 alloy, OT-4-2 alloy, AT-3 alloy, AT-4 alloy, AT-6 alloy, AT-8 alloy, AT-9-0 alloy, AT-10 alloy, AT-10-0 alloy, AT-12 alloy, Ti sub 3 A1 base alloy, titanium aluminum alloy, titanium aluminum manganese alloy, titanium aluminum vanadium alloy, VT-5-1 alloy, VT-14 alloy

ABSTRACT: The heat resistance of the VT-1, VT-5-1, VT-14, OT-4-2, AT-3, AT-4, AT-6, and AT-8 alloys was tested by a simple centrifugal method to determine the creep limit under thermal loads. Tests were carried out under loads of 20 kg/mm² at temperatures up to 700 C; specifically, tests were conducted at 450 C for 5000 hours, at 500 C for 250 hours, at 55° C for 100 hours, at 600 C for 50 hours, and at 700 C for 500 hours. Isotherms for the rested conditions were plotted. It was concluded that the VT-1 and VT-14 alloys are not heat resistant at any of the temperatures. The highest heat resistance at 600-700 C was shown by the AT-10 and AT-12 alloys, which contain Cord 1/2

ACCESSION NR: AT4007046

7 or 8 alloying elements, and the ST-2 alloy, which contains TigA1 as a main component. The AT-3 and AT-4 alloys showed good heat resistance up to 500 C and the AT-6 alloy up to 550 C. The AT-8 alloy, containing A1, Cr, Fe, Si, and B on a base of L-titanium showed a greater heat resistance at higher temperatures (up to 600 C) than the OT-4 and OT-4-2 alloys containing Ti, A1, and Mn or Ti, A1, and V with an L+B structure and VT-6 or VT-5-1 alloys containing Ti, A1, and Sn. It was proved that the heat resistance is increased by alloying with many elements. The heat resistance of the alloys containing six alloying elements increased in the direction AT-3 -> AT-4-> AT-6 -> AT-8 as their aluminum content increased. This was explained by the increase in the temperature of the A=B transformation and the strengthening of the C solid solution. Orig. art. has: 10 figures and 2 tables.

ASSOCIATION: Institut metallurgii AN SSSR (Metallurgical Institute, AN SSSR)

SUBMITTED: 00

DATE ACQ: 27Dec63

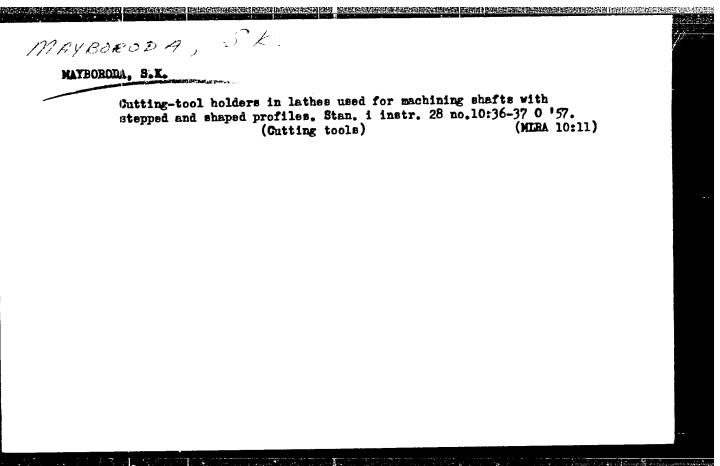
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66948

SOV/123-59-14-55123

Translation from: Referativnyy zhurnal. Mashinostroyeniye, 1959, Nr 14, p 91 (USSR)

AUTHOR:

Mayboroda, S.K.

SPECIFICAL PROPERTY OF THE PRO

Modernization of the Semiautomatic Multicut Lather of the 116-2 Type

TITLE: to Adapt Them to Copying Operations

PERIODICAL:

Tekhnol. avtomobilestroyeniya, 1958, Nr 5, pp 77 - 80

ABSTRACT:

A modernization of the semiautomatic lathes of the 116-2 model was carried out at the Gor'kiy Automobile Plant in order to adapt them to copying operations under high-speed conditions. The spindle speed was increased to 800 rpm, on account of a change in the gear ratio of a pair of gears. By an adjustment of the changeable gears, the revolving mechanism of the distribution shaft is imparted the necessary speed. This modernization made it possible to machine the given machine part, with the aid of hard alloy cutters, by the master form at a cutting speed of 50 - 100 m/min. The adjustment of the modernized lathe of the 116-2 model for the machining of the secondary shaft of the gear box is described in detail. In view of a non-uniformity of allowance the cam of the longitudinal feed is a composite one, with a variable lift of the spiral. This ensured the following

Card 1/2

66948

SOV/123-59-14-55123

Modernization of the Semiautomatic Multicut Lathes of the 116-2 Type to Adapt Them to Copying Operations

revolution over a length of 74 mm and 0.4 mm/revolution over a length of 22 mm, 0.3 mm/revolution over a length of 49 mm. In order to attain a uniform utilization of the lathes in time and a uniform adjustment of the cams on the drums of the distribution shaft, the machine part is turned over the half of its length on one lathe, while the second half is machined on the second lathe, i.e. in two operations instead of three, as it was formerly the case; the number of cutters on the longitudinal carriage is now two instead of 17. The modernization method described is applicable for the "Fey-12", "Fey-8" and other analogous lathes. 4 figures.

L.V.G.

Card 2/2

中的大型的大型的大型,在1980年间,1980年间,1980年间,1980年间,1980年间,1980年间,1980年间,1980年间,1980年间,1980年间 AMAY BURODA, S.K.

Mayboroda, S.K., Engineer, Misharov, A.F. SOV-117-58-8-3/28 AUTHORS:

Modernization of a Turning Lathe for the Boring of Openings TITLE:

and the Cutting of Faces (Modernizatsiya tokarnogo stanka dlya

rastochki otverstiy i podrezki tortsov)

PERIODICAL: Mashinostroitel', 1958, Nr 8, pp 15-16 (USSR)

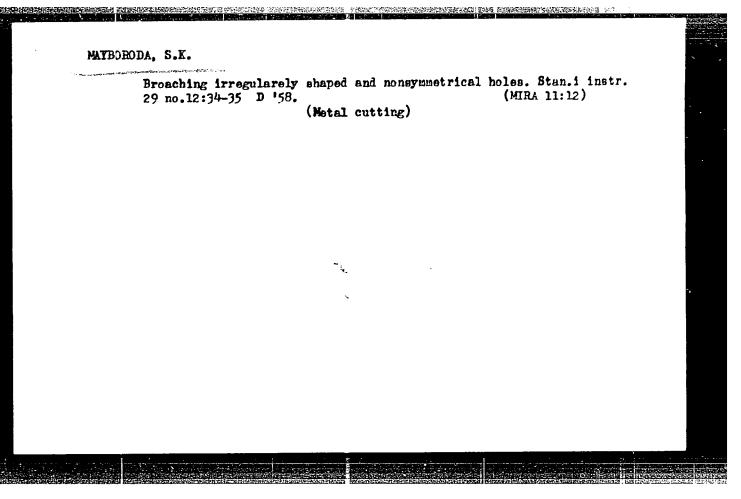
ABSTRACT: The boring of openings and the cutting of faces in a motorcar cylinder block is a very precise operation. For the production

of the motorcars "Volga", special machines had been ordered which were not ready in time. For that reason, the turning and screw-cutting lathe 1A63 was modernized. The cylinder block is fastened by a pneumatic clamp. In Figure 3, the cross section of the chuck in the back mandrel is shown. If the spindle is switched on, the chuck with the boring cutter is turned. The rack is moved in the longitudinal direction by an additional electromotor. Figure 4 shows the chuck with cutters and rack mechanism. Chucks of this design ensure a high degree of precision. The improvement of the lathe is not complicated and may be carried out in the tool workshop

of every plant. There are 3 diagrams and 1 photo.

1. Lathes - Applications

Card 1/1



Mechanizing the removing of bushing faces. Mashinostroitel' no.1: 42-43 Ja '59. (MIRA 12:2)
1. Gor'kovskiy avtozavod. (Machine-shop practice)

SOV/122-59-2-20/34

AUTHOR:

Mayboroda, S.K., Engineer

TITIE:

Fixing and Clamping Workpieces When Turning at High Production Rates (Ustanovka i zakrepleniye detaley pri

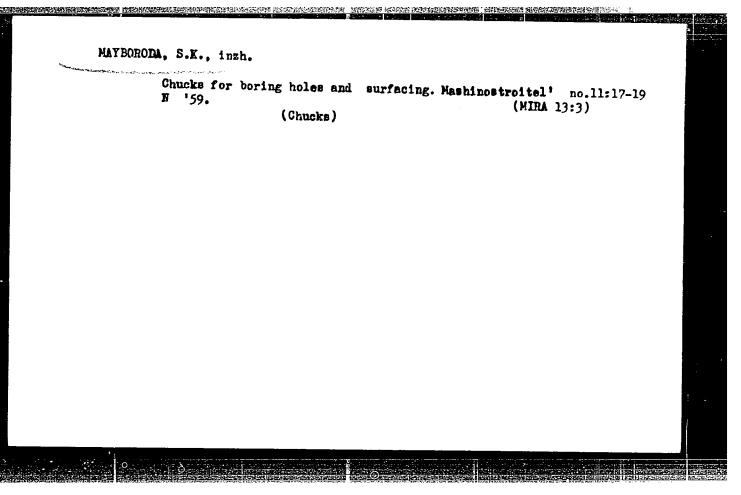
vysokoproizvoditel'nom tochenii)

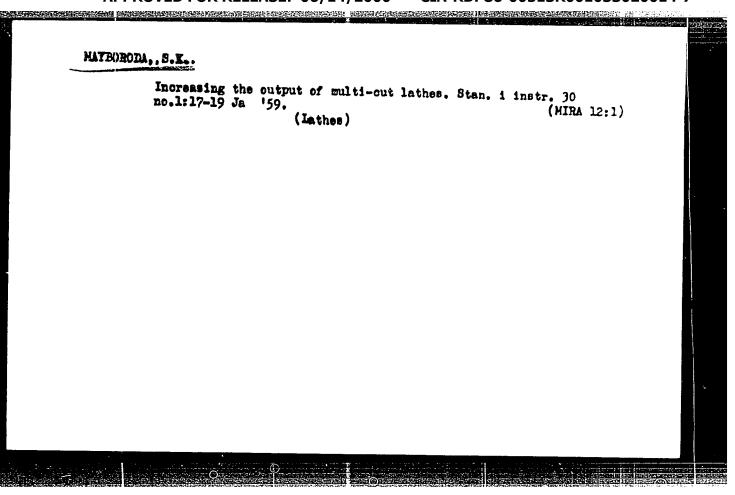
PERICOICAL: Vestnik Mashinostroyeniya, 1959, Nr 2, pp 57-58 (USSR)

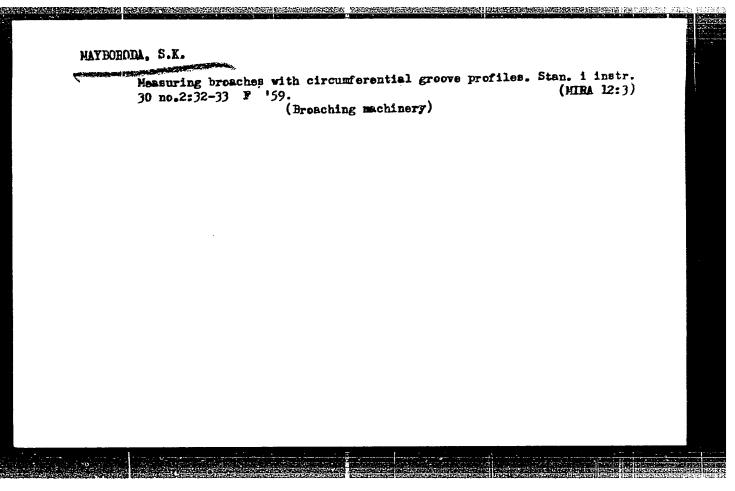
ABSTRACT:

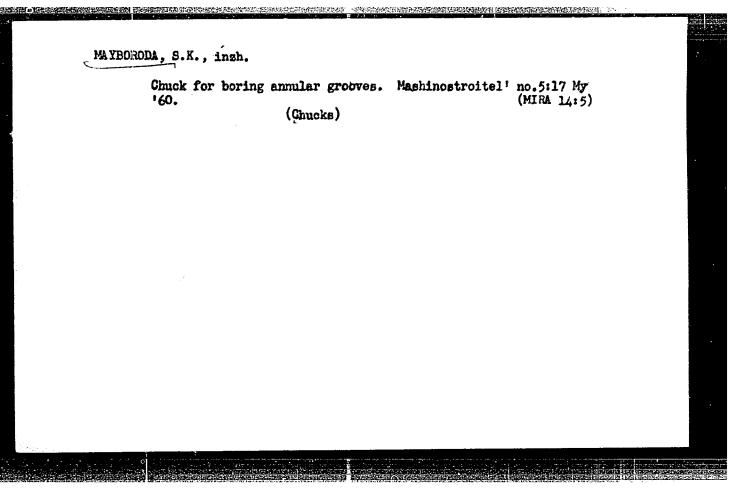
Design for an adjustable front work centre is shown in Fig 1. The taper sleeve fits into the lathe headstock spindle and the actual centre can be brought forward by the adjusting screw at the back and be locked by the collet at the front. Design for a swing jaw type chuck is shown in Fig 2, 3 and 4. The axis joining the swing jaw centre to the work centre should be at an angle of 12 to 15° to the axis joining the point of contact of the jaw to the centre from which the peripheral arc of the jaw is machined. Formulae for calculating the required dimensions of swing jaws to achieve this are given. Details of the preferred toothed profile for the swing jaws are shown. There are 4 figures.

Card 1/1









MAYBORODA, S.Z., inzb.

Investigating the deformability of materials on vibrating units. Mashinostroenie no.3:21-22 May 16 '63.

(MIRA 16:7)

1. Kiyevskiy ordena Lenina politekhnicheskiy institut.

(Deformations(Mechanics)—Testing)

DASHEVSKIY, I.Ya., inzh.; MAYBORODA, T.A., inzh.

Push conveyors at the Dnepropetrovsk Tire Plant.

Profize. 16 no.7:27-31 Jl '62. (MIRA 15:8)

(Dnepropetrovsk.—Tires, Rubber)

(Dnepropetrovsk.—Conveying machinery)

87433 s/191/60/000/010/005/017 B004/B060

158460

AUTHORS: Losev, I. P., Datskevich, L. A., Mayboroda, V. D.

TITLE: Synthesis and Investigation of Foam Plastics From Polyesters

of Terephthalic Acid and 2,4-Toluylene Diisocyanate

PERIODICAL: Plasticheskiye massy, 1960, No. 10, pp. 14-16

TEXT: The authors based on Western papers to synthesize foam plastics from polyesters of terephthalic acid and 2,4-toluylene diisocyanate. The polyesters were synthesized by allowing diethylene glycol, triethylene glycol or glycerin to enter into reaction with dimethyl terephthalic acid in the presence of 1% NaOH in a ratio of 2:1 to 1.2:1 in nitrogen atmosphere with a slow increase (16 h) of temperature to 200°C. A mixture was prepared from the polyester (molecular weight 700-1500, hydroxyl number 400-80), the emulsifier ON-10 (OP-10), water, and triethyl amine, 30-50% 2,4-toluylene diisocyanate was added under vigorous stirring, and the mixture was then allowed to harden at 70-80°C in a thermostat. The weight by volume was controled by the water addition:

Card 1/2

87433

Synthesis and Investigation of Foam Plastics S/191/60/000/010/005/017 From Polyesters of Terephthalic Acid and B004/B060 2,4-Toluylene Diisocyanate

g water per 100 g polyester 0.5 1.0 2.0 3.0 4.0 5.0 weight by volume of foam plastic, kg/m³ 183 113 72 60 57 52

The total volume of pores amounted to 91-97% of the sample volume. The maximum water adsorption (in compliance with FOCT 4650-49, GOST 4650-49)

amounted to 20-30 g/dm³. The compressive strength was determined according to FOCT 4651-49 (GOST 4651-49), the bending strength according to FOCT 4651-49 (GOST 4648-56)(5.4 kg/cm² for 60 kg/m³ weight by volume), and the intrinsic resilience according to FOCT 4647-55 (GOST 4647-55). The heat resistance, determined according to Zhurkov, was 100-130°C. All foam plastics were hardly inflammable and were quickly extinguished after removal from the flame. Foam plastics with weight by volume 160-220 kg/m³ are usable in civil construction, aircraft and automobile building. The plastics with weight by volume 50-100 kg/m³ are suitable for heat insulation and as floating materials. There are 16 references: 2 Soviet, 5 US, 3 British, and 6 German.

Card 2/2

ACCESSION NR: AT4033988

s/0000/63/000/000/0073/0075

AUTHOR: Datskevich, L. A.; Mayboroda, V. D.; Losev, I. P. (Deceased)

TITLE: Synthesis and analysis of polyester urethans containing phosphorus.

1. Reaction of phenylphosphoric acid dichloroanhydride with diethylene glycol

SOURCE: Geterotsepny*ye vy*sokomolekulyarny*ye soyedineniya (Heterochain macromolecular compounds); sbornik statey. Moscow, Izd-vo "Nauka," 1963, 73-75

TOPIC TAGS: diethylene glycol, phenylphosphoric acid dichloroanhydride, polyester, urethan, polycondensation, polycondensation kinetics, second order reaction, reaction rate temperature dependence, phosphorus containing polyester urethan, urethan

ABSTRACT: Equimolecular proportions of diethylene glycol and phenylphosphoric acid dichloroanhydride were polycondensed in solution to study the kinetics of the process at 40-80C. Analysis of the results indicates a second order reaction up to conversion levels of 70%. The activation energy was calculated as 10.6 kcal/mol. The temperature had a significant effect on the reaction rate constant (3.58·10⁻⁴ and 22.3·10⁻⁴ l·mol⁻¹·sec⁻¹ at 40 and 80, respectively), the temperature coefficient (1.73 and 1.45, respectively) and the rate of reaction (33 and 71%, respectively after 2 min.). The polyester obtained was a colorless, highly viscous liquidly; the molecular weight about 2000. Orig. art. has: 4 graphs, 1 table and

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ACCESSION NR: AT4034010

AUTHOR: Datskevich, L.A.; Mayboroda, V.D.; Losev, I.P. (Deceased)

TITLE: Synthesis and investigation of phosphorus-containing polyesterurethans.

II. The reactivity of the dichloroanhydrides of substituted phenylphosphoric acids

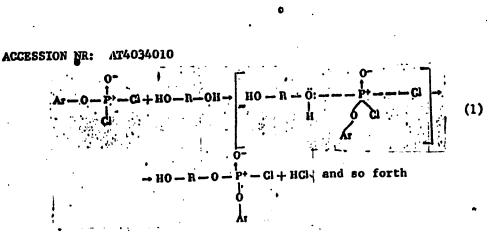
SOURCE: Geterotsepny*ye vy*sokomolekulyarny*ye soyedineniya (Heterochain mac-romolecular compounds); sbornik statey. Moscow, Izd-vo "Nauka," 1963, 243-245

TOPIC TAGS: polymer, phosphorus containing polymer, urethan polymer, polyesterurethan, phosphorus containing polyesterurethan, phenylphosphate, phenylphosphoric acid dichloroanhydride fireproof material

ABSTRACT: In a study of the reactivity of dichloroanhydride-substituted phenyl-phosphoric acids, the kinetics of the latter's interaction with diethyleneglycol was investigated at 50G and the reaction rate constants for different substituted products were graphically determined. The following scheme is offered to represent the reaction mechanism:

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Card 1/3



in which Ar stands for phenyl, p-chlorophenyl, p-bromophenyl, p-nitrophenyl, p-methylphenyl, m-methylphenyl and tertiary n-butylphenyl, involved in the study. Electropositive substitutes, present in the benzene ring of a dichloro-anhydride, were found to slow down the polycondensation reaction and to accelerate the electronegative reaction. Synthesis of fireproof film materials is believed to be feasible from P-containing polyesters and discompanies. Orig. art. has: 2 tables and 2 figures.

Card 2/3

ACCESSION NR: AT4034010

ASSOCIATION: Moskovskiy khimiko-tekhnologicheskiy institut im. D. I. Mendeleyeva (Koscow Chemical Technology Institute)

SUBMITTED: 26Apr63

DATE ACQ: 30Apr64

ENCL: 00

SUB CODE: OC, MI

NO REF SOV: 003

OTHER: COO

Card 3/3

ACCESSION NR: AP4043790

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AUTHOR: Datskevich, L. A., Mayboroda, V. D., Losev, I. R.

TITLE: Synthesis and investigation of phosphorus-containing polyesterurethanes. III

SOURCE: Vy*sokomolekulyarny*ye soyedineniya, v. 6, no. 8, 1964, 1498-1500

TOPIC TAGS: polyesterurethane, urethane, phosphorylated polymer, polymerization kinetics, phenylphosphoric acid, triethylene glycol, hexamethylene disocyanate

ABSTRACT: Phosphorus-containing polyesterurethanes were synthesized from 1, 6-hexamethylenediisocyanate and a polymer based on triethyleneglycol and the dichlorounhydride of phenylphosphoric acid, in the absence of a solvent, in order to expand the practical uses of a reaction whose mechanism is believed to follow the pathway;

 $0 - C - N - R - + H + \ddot{O} - R' - \downarrow \qquad 0 - C - NH - R - \downarrow \qquad 0$ $-R' - O \cdots H$ 0 (1)

Equimolar amounts of the cyanate and the polymer were reacted at 60, 70, 80, 90 and 100C in a testube provided with a mechanical mixer for a period of 3-6 hrs, during which time the isocyanate number and the refractivity were periodially determined to follow the dynamics

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ACCESSION NR: AP4043790

of the reaction. From calculations and curves it was found that the reaction rate increases sharply with temperature, there is an inverse relationship between the coefficient of refraction and the isocyanate number, the activation energy of the reaction is 17.9 Kcal/mol, and the reaction is second-order. Orig. art. has: 1 table, 5 figures, 2 formulas and 2 chemical equations.

ASSOCIATION: Moskovskiy khimiko-tekhnologicheskiy institut imeni D. I. Mendeleyeva (Moscow Institute of Chemical Technology).

SUBMITTED: 05Oct63

SUB CODE: OC

NO REF SOV: 002

OTHER: 001

Card 2/2

L 12011-65 EWT(a)/EPF(c)/EPR/EWP(j)/T Pc=4/Pr=4/Ps=4 RPL WW/RM
ACCESSION NR: AP404/221 S/0190/64/006/010/1907/1910

AUTHOR: Maybo cda, V. D.; Datskevich, L. A.

TITLE: Polycondensation of phenyl phosphorodichloridate with disthylane glysol

BOURCE: Vy*sokomolekulyarny*ys soyedineniya, v. 6, 10, 1964, 1907-1910

TOPIC TAGE: polycondensation, polyester, phosphorus containing poly-ester, phenyl phosphorodichloridate, diethylene glycol, polyurethan

ABSTRACT: Communication 4 of the series "Synthesis and investigation of phosphorus containing polyester-urethens" reports a study of the polycondensation of phenyl phosphorodichloridate with diethylene glycol in a 1/1 molar ratic in the melt at 40—80C. A polyester, linear in structure and with little branching, was obtained, which reacts with 1 6-hexamethylene dissocyanate to form a polyurethan. The effect of polycondensation temperature and time on the degree of completion, polyester yield, intrinsic viscosity, and polyester refractive index was studied. The maximum degree of completion was

Card 1/2

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96-98% at 60, 70, and 80C and a 1-hr reaction time. The maximum polyester yield of 90-93% was attained at 40-50C and a 5-hr reaction time. The observed increase in refractive index and intrinsic viscosity in the course of the polycondensation indicates a rise in the molecular weight of the polyester with reaction time. Despite the near completion of the polycondensation after 0.5-2 hr, further

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